



LUMINON



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGI-

HIGHLIGHTS

- EEE Students' Association and IETE Students' Chapter inauguration
- Workshop on Challenges and Opportunity Solar Industries
- Mini Project Competition

IN THIS ISSUE

Association Inauguration	02
Mini Project	03
Guest Lectures	04
Student Activities	05
Workshop on Solar	08
Staff Activities	09
Seminars	10
International Conferences	11
Publications	12



VISION OF THE DEPARTMENT

To be prominent in Electrical and Electronics Engineering to contribute to the industrial progress and welfare of mankind

MISSION

- ◆ To develop and utilize the infrastructure facilities to promote core competency
- ◆ To harness the human resources for effective teaching and collaborative industrial research
- ◆ To foster social values and professional ethics

PROGRAM EDUCATIONAL OBJECTIVES

- PEO1: Exhibit professional competency in career and pursue higher education cutting across the geographical barriers
- PEO2: Apply expertise to solve real world complex engineering problems
- PEO3: Continuously upgrade knowledge and exhibit effective team work to execute diversified electrical engineering projects
- PEO4: Demonstrate social responsibility with ethics to promote energy conservation and environmental protection

EEE STUDENTS' ASSOCIATION & IETE STUDENTS' CHAPTER INAUGURATION

The Department Student's Association and IETE Student's Chapter was inaugurated by the Chief Guest **Mr. Yuvaraj Moorthy S**, Senior Manager, Central Technical Marketing Southern Region, Schneider Electric, Chennai on 22.07.2017.



The Department conducted the National Level Student's Technical Symposium **OPUZELEK 2K 17'** on **31.07.2017**. It was inaugurated by the Chief Guest **Shri James Michael Amulu**, Director, SAP Labs.



Mini Project Competition

The Department conducted the **Third Mini Project Competition** on 31.07.2017 and around 20 batches of students displayed their projects. The Head of the Department distributed the Prizes for the winners and participation certificates.



MITSUBISHI ELECTRIC CUP

- ◆ Mahalakshmi K, Sangeetha D, Anjana L.R, Nivedha R of “RI-MACS” team won 8th Place in Mitsubishi Electric Cup Exhibition held in the City of Ahmadabad.



Team Members of RI-MACS receiving Award and Cash Prize of Rs.10,000

GUEST LECTURES

- ◆ **Mr. Krishnamurthy D**, Manager- Design and Engineering, Power Projects, Training and Technology Consultants, Tirupur to II year students on **“Power Plants”** 26.08.2017.
- ◆ **Mr. Krishnamurthy D**, Manager- Design and Engineering, Power Projects, Training and Technology Consultants, Tirupur to II year students on **“Recent Developments in Power Industry”** 25.09.2017.
- ◆ **Mr. Krishnamurthy D**, Manager- Design and Engineering, Power Projects, Training and Technology Consultants, Tirupur to III year students on **“Electrical Machines”** on 19.08.2017.
- ◆ **Mr. Krishnamurthy D**, Manager- Design and Engineering, Power Projects, Training and Technology Consultants, Tirupur to IV year students on **“Power System Analysis Part 1”** on 29.07.2017.
- ◆ **Mr. Krishnamurthy D**, Manager- Design and Engineering, Power Projects, Training and Technology Consultants, Tirupur to IV year students on **“Power System Analysis Part 2”** on 04.09.2017.

AWARDS

- ◆ **Ramya B** of III Year won the **“WORLD RECORD HOLDER”** for achieving an Eminent World Record under the theme “World Biggest International Hands – On Security Forensics Workshop” from Wikitechy and Microsoft Research Community Group, Chennai on 13.08.2017.
- ◆ **Arvind J, Karthik k, Lakshmikanth R, Gokul B** of IV Year was short listed for **Mitsubishi Electric Cup 2018** for the Project proposal titled **“Extraction of Fuel Waste from Plastic Waste”**.
- ◆ **Mahalakshmi K, Sangeetha D, Anjana L.R, Nivedha R** of IV Year was short listed for **Mitsubishi Electric Cup 2018** for the Project model **“RI-MACS”**.

INDUSTRIAL VISITS

- ◆ II year students visited **Southern Railway, Royapuram**, on 04.07.2017.
- ◆ II year students visited **Alamathi Substation** on 14.07.2017.
- ◆ III year students visited **Nokia Solutions** on 14.07.2017.
- ◆ III year students visited **Electric Loco Shed, Southern Railway, Arakonam** on 26.08.2017.
- ◆ IV year students visited **ISRO** on 04.07.2017.
- ◆ IV year students visited **TAFE, Maraimalai Nagar** on 18.09.2017.

- ◆ II year students visited **400 KV Substation, Sriperumbudur**, on 21.02.2018.
- ◆ II year students visited **AVIJAY Electronics, Ekkattuthangal**, on 02.02.2018
- ◆ III year students visited **230 KV Substation, Korattur** on 09.02.2018.
- ◆ III year students visited **VI Microsystems Pvt. Ltd, Perungudi** on 17.02.2018.

STUDENT ACTIVITIES

INTERNATIONAL CONFERENCE

- ◆ **Athar Zafeer K A and Barath M** of III Year presented a paper titled '**Prevention of Bike Accidents using an Intelligent Helmet**' in 3rd International Conference on Computer Management (ICCM 2017) held at **Rajastan Technical University, Kota** during 28.12.2018 & 29.12.2018.
- ◆ **SAI SACHIN G and SURYA P** of III Year presented a paper titled “**Smart Institutions using Energy Management Systems**” in 4th International Conference on Electrical Energy Systems (ICEES2018) held at **SSN College of Engineering, Chennai** during 28.12.2018 & 29.12.2018.

TECHNICAL PAPER PRESENTATIONS

- ◆ **Keerthana S**, of III Year won **Second Prize in Paper Presentation** in the Symposium, 'EPSILON' at Meenakshi Sundararajan Engineering College on 31.08.2017.
- ◆ **Saideep T** of III Year won **First Prize in Paper Presentation** in the Symposium, 'AAVISHKAR 17' at Prathyusha Engineering College on 16.09.2017.
- ◆ **Sai Sachin G**, of III Year won **First Prize in Paper Presentation** in the Symposium, 'EPSILON' at Meenakshi Sundararajan Engineering College on 31.08.2017.
- ◆ **Giridharan A, Ravi Rahul H, Subash Chandra Bose V and Ariharan E** of III Year presented Paper in the Symposium, 'EPSILON' at Meenakshi Sundararajan Engineering College on 31.08.2017.
- ◆ **Settipalli Rohit Sai and Nasrudeen H** of III Year presented Paper in the Symposium, 'PULSE 17' at Sri Venkateshwara College of Engineering, Sriperumbudur on 23.09.2017.
- ◆ **Barath M** of II Year has participated in National Level HACK4THRONE at Rajalakshmi Engineering College from 26 to 27.08.2017.
- ◆ **Kriba Shankar D** of II Year has participated in INVENTE 2.0 a National level Techfest of SSN College of Engineering on 08.09.017 and 09.09.2017.

- ◆ **Sandhiya E** of II Year has completed the ‘**C Course**’ from eyeopen Technologies August.2017 to October 2017.
- ◆ **Ravi Raghul H** of III Year has completed the Training Programme in ‘**Operation and Maintenance of Power Transformers**’ from Advanced Training Institute,Chennai 20.11.2017 to 24.11.2017.
- ◆ **Keerthana S** of III Year attended one day National Workshop in “**Internet of Things**” conducted at 3i Techso Technologies on 02.07.2017.
- ◆ **Rohit Sai S** and **Nasrudeen M** of III Year won **Second Prize in Paper Presentation** in the Symposium, ‘VYUHA 18’ at Panimalar Institute of Technology on 21.02.2018.
- ◆ **Bhuvaneshwari G, Keerthana S** of III Year attended Two days National Workshop on “**MATLAB/ SIMULINK with Real time Arduino interfacing**” conducted at Rajalakshmi Engineering College in association with **IEEE Madras Section** from 19 to 20.09.2017.
- ◆ **Sai Sachin G and Surya P** of III Year presented **Paper Presentation** in the Symposium, ‘SURGE 2k17’ at Velammal Engineering College, on 12.08.2017.
- ◆ **Sai Sachin G, Durga Prasad K and Surya P** of III Year won **Second Prize in Papyrus** in the Symposium, ‘TECHVIZHAA’ 17’ at Velammal Engineering College on 12.08.2017.
- ◆ **Premlatha V** of II Year attended one day Hands on Workshop in “**IoT and its Industrial Application**” organised at CIET in association with C-Star in Mentors Development Program 2017 on 10.06.2017.

ONLINE CERTIFICATION COURSE

- ◆ **Hari Kishore M** of III Year Successfully Completed NPTEL Online Certification course on “**Control Engineering**”.
- ◆ **Keerthi Nanditha U and Hari Kishore M** of III Year Successfully Completed NPTEL Online Certification course on “**Introduction to Programming in C**”.
- ◆ **Monica R** of III Year Successfully Completed NPTEL Online Certification course on “**Programming, Data Structures and Algorithms Using Python**” with ELITE.

INPLANT TRAINING

- ◆ **Vishnu R and Yuvanesh E** of II Year underwent Inplant Training at Spark Automation Centre from 07.12.2017 to 09.12.2017.
- ◆ **Avik Banerjee, Dinesh S, Kumara Pandian V and Nasrudeen H** of III Year underwent Inplant Training at Chennai Port Trust from 29.11.2017 to 04.12.2017.
- ◆ **Vani Durai, Pon Lakshmi A** of III Year underwent Inplant Training at North Chennai Thermal Power Station Stage II from 13.11.2017 to 17.11.2017.
- ◆ **Settipalli Rohith Sai** of III Year underwent Inplant Training at North Chennai Thermal Power Station Stage II from 13.11.2017 to 17.11.2017.
- ◆ **Keerthi Nanditha U** of III Year underwent Inplant Training at Kranium Healthcare Systems (P) Ltd from 14.06.2017 to 26.06.2017.
- ◆ **Ashik K S, Hari Kishore M and Kamesh S** of III Year underwent Inplant Training at North Chennai Thermal Power Station Stage II from 11.12.2017 to 15.12.2017.
- ◆ **Priyadharshini B** of III Year underwent Inplant Training at Wilson Power and Distribution Technologies Pvt. Ltd from 11.12.2017 to 13.12.2017.
- ◆ **Ariharan E, Ravi Rahul H, Sethu Chidambaram M S, Subash Chandra Bose V, Giridharan V, Pradeep K and Sai Santhosh D** of III Year underwent Inplant Training at Chennai Port Trust from 01.12.2017 to 06.12.2017.
- ◆ **Ramya B, Premalatha V and Sandhiya Eganathan** of II Year underwent Inplant Training at Spark Automation Centre from 07.12.2017 to 09.12.2017.
- ◆ **Priyadharshini B** of III Year underwent Inplant Training at Panasonic Appliances India Co. Ltd from 20.12.2017 to 24.12.2017.

ENTREPRENEURSHIP AWARENESS CAMPAIGN

Rakshana M, Premalatha V, Pavithra J, Poovizhi B, Nanadhini G, Swetha V.B.J, Sahithya R, AAdhiya CM.V.S attended Industrial Awareness Campaign organized by MSME Development Institute Chennai in association with Women Entrepreneurs Welfare Association & Women Seva Trust on 10.02.2018

WORKSOP ON CHALLENGES AND OPPORTUNITIES IN SOLAR INDUSTRIES

Two days National Level Workshop on “Challenges And Opportunities in Solar Industries” was organized during 5-01-2018 to 06-01-2018 in Association with Cares Renewables Pvt. Ltd. and IETE Student Chapter. Mr.Raguram Arjunan., Director, Cares Renewables Pvt Ltd., delivered the Keynote lecture to the Students.



FUNDS & GRANTS RECEIVED

Mr. Gunalan K, Associate Professor, Reshma C.G, Ramya M, Pasupuleti Gnaphthi Received Fund of Rs.10000 from Tamilnadu State Council for Science and Technology (TNSCST) for the Project Monitoring of Plant disease and insect pest using IOT.

MOU

Memorandum of Understanding (MOU) is made on 22.02.2018 between MosIC Solutions and R.M.K Group of Institutions to enhance and Strengthen knowledge of the Students

STAFF ACTIVITIES

FDPS ATTENDED

- ◆ **Dr Kalaiarasi N.**, Professor & HoD and **Mr Gunalan K.**, Associate Professor, **Dr. Prakash J.**, Associate Professor Delivered a lecture in the Anna University approved Faculty Development Training Programme on “**Transmission and Distribution**” on 28.11.2017
- ◆ **Mr Gunalan K.**, Associate Professor., **Dr. Prakash J.**, Associate Professor, **Mr. Umasankar L.**, Assistant Professor, **Mr. Hariharan N.**, Assistant Professor Participated in the Faculty Development Programme on “**Instructional Design And Delivery System**” Conducted by NIITTR at RMK College of Engineering and Technology from 19 to 24.06.2017.
- ◆ **Mr Gunalan K.**, Associate Professor Participated AICTE-QIP Sponsored Short Term Course (STC) on " **Nascent Generation and Distribution Technologies, and Potential Research Problems in Power Systems**” **Pondicherry Engineering College, Pondicherry** from 04 to 08.12.2017.
- ◆ **Ms. Catherine T J.**, Associate Professor attended “**Internet of Things**” at RMK Engineering College on **07.06.2017**.
- ◆ **Ms. Catherine T J.**, Associate Professor attended “**Python Programming**” at RMK Engineering College during 20 to 24.06.2017.
- ◆ **Mr. Umasankar L.**, Assistant Professor attended “**Product Development Training Course**” at SN Transformer Company, Secunderabad from 20.11.2017 to 22.11.2017.
- ◆ **Dr. Prakash J.**, Associate Professor, , **Ms. Catherine T J.**, Associate Professor attended Anna University approved Faculty Development Training Programme on “**Artificial Intelligence**” at **RMKCET** from 05.12.2017 to 12.12.2017.
- ◆ **Mr. Umasankar L.**, Assistant Professor, **Ms. Bindu K V.**, Assistant Professor, **Ms. Nagarani B.**, Assistant Professor, **Ms. Geethamahalakshmi G.**, Assistant Professor attended Anna University sponsored FDP on “**Electrical Machines II**” at RMD Engineering College from 07 to 13.06.17.

- ◆ **Mr. Umasankar L.**, Assistant Professor, **Ms.Bindu K V.**, Assistant Professor, **Ms.Nagarani B.**, Assistant Professor, attended AICTE sponsored Two Weeks FDP on “**Analysis of Power System Protection & Automation- Current Scenario**” at KCG College of Technology from 26.11.2017 to 09.12.2017.
- ◆ **Ms.Bindu K V.**, Assistant Professor and **Ms.Nagarani B.**, Assistant Professor, **Ms. Nageswari D.**, Assistant Professor and **Mr. Dilavar Basha K.**, Assistant Professor attended FDP on “**Digital & its Transformation**” at Cognizant on 23.09.17.
- ◆ **Ms.Nagarani B.**, Assistant Professor, attended Anna University sponsored FDP on “**Transmission & Distribution**” at RMD Engineering College from 27.11.2017 to 04.12.2017.

SEMINARS/WORKSHOPS ATTENDED

- ◆ **Mr Gunalan K.**, Associate Professor., **Ms. Nageswari B.**, Assistant Professor and **Ms. Geetha Mahalakshmi G.**, Assistant Professor attended Workshop on “ Basics of Automation” organized by MSME Technology Development Centre-Agra at St. Joseph’s Institute of Technology from 09.11.2017 to 10.11.2017.
- ◆ **Ms.Bindu K V.**, Assistant Professor, **Ms.D Nageswari.**, Assistant Professor, **Ms.Nagarani B.**, Assistant Professor & **Ms. Geethamahalakshmi G.**, Assistant Professor attended Hands on Workshop “**Schneider PLC Programming**” at IPCS Automation, Chennai on 14.10.2017.
- ◆ **Ms.Nagarani B.**, Assistant Professor, attended Workshop on “**Design & Implementation of Grid Integrated Solar PV system with Research Perspective**” at St. Joseph’s Institute of Technology” from 22 to 24.11. 2017.

- ◆ **Ms. Catherine T J.**, Associate Professor attended National level workshop on “**Intensive Research Proposal Writing**” at Saveetha University on 27 and 28.10.2017.
- ◆ **Mr.Hariharan N.**, Assistant Professor attended an Two day Workshop on “**Application of CFD in Science and Engineering**” Organized by RMK College of Engineering and Technology from 01 to 02.12.2017.
- ◆ **Ms. D. Nageswari**, Assistant professor, Attended AICTE Seminar on "Smart Grids and Green Systems (Smart Greens)" during 5-6 October 2017 at **Pondicherry Engineering College, Pondicherry.**

ONLINE CERTIFICATION COURSE

- ◆ **Ms.D Nageswari.**, Assistant Professor and **Ms. Geethamahalakshmi G.**, Assistant Professor Successfully Completed NPTEL Online Certification course on “ **Design of Photo Voltaic Systems**”.
- ◆ **Ms. B. Nagarani.**, Assistant Professor, Successfully Completed NPTEL Online Certification course on “**Design of Photo Voltaic Systems**” with ELITE.

INTERNATIONAL CONFERENCES

- ◆ **Mr. Gunalan K.**, Presented Paper titled “**Transformations in Engineering Education Through Enhancing Faculty Competence**”, in International Conference on Transforming Engineering Education PP. 14-16, Dec 2017.
- ◆ **Ms. D. Nageswari.**, attended 3rd edition Conference on Automotive Electronics on “**Next Generation Technologies in Automotive Electronics**” on 7th December 2017 at Hotel Crown Plaza, Chennai.

- ♦ **Mr. Dilavar Basha K**, presented a paper titled “**Soft Computing Approach for Microgrid Islanding detection**”, in 1st International Conference on Large Scale Grid Integration of Renewable energy of India-Poster Presentation Endorsed by Ministry of New and Renewable Energy, 6-8 September 2017.

PUBLICATIONS

INTERNATIONAL/NATIONAL JOURNALS

- ♦ **Dr. Kalaiarasi N and Mr. Umasankar L.**, “Multi wavelet Transform with Radial Basis Function Neural Network for Faults Diagnosis in Power Transformer”, Journal of Computational and Theoretical Nanoscience, Vol. 33, Issue: 9, 2015, pp.1545 – 1553.

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